# INTERNATIONAL SEARCH REPORT

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PCT/EP US/10189

10/527771

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C07K16/18 C07K14/435

A61K39/395 C12N5/10

A61K38/00 C12N15/12 A61K38/02

A61K39/00

According to International Patent Classification (IPC) or to both national classification and IPC

#### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 CO7K A61K C12N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, MEDLINE, EMBL, WPI Data, PAJ

ENTS CONSIDERED TO BE RELEVANT	
Citation of document, with Indication, where appropriate, of the relevant passages	Relevant to claim No.
DATABASE EMBL 'Online! Ostertagia ostertagi EST, clone ad(hex)ESF20 31 March 2001 (2001-03-31), XP002264415 accession no. EMBL Database accession no. AJ310819	1,8-12, 19-29
DATABASE EMBL 'Online! EST sequence similar to vitellogenin isotyp 2 14 May 2001 (2001-05-14), XP002264416 accession no. EMBL Database accession no. BG733986	1,8-12, 19-29
WO 95/09182 A (MEEUSEN ELZA N TH ;WALKER JOHN (AU); ASHMAN KEITH (AU); UNIV MELBO) 6 April 1995 (1995-04-06) abstract; claims 1,29-33	1,8-12, 19-29
	DATABASE EMBL 'Online! Ostertagia ostertagi EST, clone ad(hex)ESF20 31 March 2001 (2001-03-31), XP002264415 accession no. EMBL Database accession no. AJ310819  DATABASE EMBL 'Online! EST sequence similar to vitellogenin isotyp 2 14 May 2001 (2001-05-14), XP002264416 accession no. EMBL Database accession no. BG733986  WO 95/09182 A (MEEUSEN ELZA N TH ;WALKER JOHN (AU); ASHMAN KEITH (AU); UNIV MELBO) 6 April 1995 (1995-04-06) abstract; claims 1,29-33

X Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
<ul> <li>Special categories of cited documents:</li> <li>"A" document defining the general state of the art which is not considered to be of particular relevance</li> <li>"E" earlier document but published on or after the international filing date</li> <li>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</li> <li>"O" document referring to an oral disclosure, use, exhibition or other means</li> <li>"P" document published prior to the international filing date but later than the priority date claimed</li> </ul>	<ul> <li>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</li> <li>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> <li>"&amp;" document member of the same patent family</li> </ul>
Date of the actual completion of the international search	Date of mailing of the international search report
9 December 2003	¶ 9. 84. 04
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL – 2280 HV Rijswijk  Tel. (+31–70) 340–2040, Tx. 31 651 epo nl,  Fax: (+31–70) 340–3016	Authorized officer  Griesinger, I

## INTERNATIONAL SEARCH REPORT

Internation No PCT/EP 3/10189

	PCT/EP-3/10189
Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
CHEN JENG-SHONG ET AL: "Extensive sequence conservation among insect, nematode, and vertebrate vitellogenins reveals ancient common ancestry" JOURNAL OF MOLECULAR EVOLUTION, vol. 44, no. 4, 1997, pages 440-451, XP002264414 ISSN: 0022-2844 abstract	1,8-12, 19-29
VERCAUTEREN ISABEL ET AL: "Identification of excretory-secretory products of larval and adult Ostertagia ostertagi by immunoscreening of cDNA libraries." MOLECULAR AND BIOCHEMICAL PARASITOLOGY. NETHERLANDS FEB 2003, vol. 126, no. 2, February 2003 (2003-02), pages 201-208, XP001156729 ISSN: 0166-6851 abstract page 207, left-hand column, paragraph 3	1,8-12, 19-29
	CHEN JENG-SHONG ET AL: "Extensive sequence conservation among insect, nematode, and vertebrate vitellogenins reveals ancient common ancestry" JOURNAL OF MOLECULAR EVOLUTION, vol. 44, no. 4, 1997, pages 440-451, XP002264414 ISSN: 0022-2844 abstract  VERCAUTEREN ISABEL ET AL: "Identification of excretory-secretory products of larval and adult Ostertagia ostertagi by immunoscreening of cDNA libraries." MOLECULAR AND BIOCHEMICAL PARASITOLOGY. NETHERLANDS FEB 2003, vol. 126, no. 2, February 2003 (2003-02), pages 201-208, XP001156729 ISSN: 0166-6851 abstract



BOX I UDS	servations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This Internation	ional Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
	ims Nos.: eause they relate to subject matter not required to be searched by this Authority, namely:
beca	ims Nos.: cause they relate to parts of the International Application that do not comply with the prescribed requirements to such extent that no meaningful International Search can be carried out, specifically:
	ims Nos.: ause they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Obs	servations where unity of invention is lacking (Continuation of item 2 of first sheet)
This Internation	ional Searching Authority found multiple inventions in this international application, as follows:
see	e additional sheet
1. As a sear	all required additional search fees were timely paid by the applicant, this International Search Report covers all irchable claims.
2. As a of an	all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment invalues and additional fee.
3. As o	only some of the required additional search fees were timely paid by the applicant, this International Search Report ers only those claims for which fees were paid, specifically claims Nos.:
restr	required additional search fees were timely pald by the applicant. Consequently, this International Search Report is bricted to the Invention first mentioned in the claims; it is covered by claims Nos.:  and 12 (completely) and 8-11, 19-29 (partially)
Remark on P	Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.

#### FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1 and 12 (completely) and 8-11,19-29 (partially)

The nucleic acid sequence according to Seq. ID No. 7, the corresponding amino acid sequence according to Seq. ID No. 8, the corresponding protein or polynucleotide fragments, recombinant DNA molecules, "carriers", host cells, first and further medical uses, vaccines, and diagnostic kits.

2. claims: 2 and 13 (completely) and 8-11,19-29 (partially)

The nucleic acid sequence according to Seq. ID No. 3, the corresponding amino acid sequence according to Seq. ID No. 4, the corresponding protein or polynucleotide fragments, recombinant DNA molecules, "carriers", host cells, first and further medical uses, vaccines, and diagnostic kits.

3. claims: 3 and 14 (completely) and 8-11,19-29 (partially)

The nucleic acid sequence according to Seq. ID No. 5, the corresponding amino acid sequence according to Seq. ID No. 6, the corresponding protein or polynucleotide fragments, recombinant DNA molecules, "carriers", host cells, first and further medical uses, vaccines, and diagnostic kits.

4. claims: 4 and 15 (completely) and 8-11,19-29 (partially)

The nucleic acid sequence according to Seq. ID No. 1, the corresponding amino acid sequence according to Seq. ID No. 2, the corresponding protein or polynucleotide fragments, recombinant DNA molecules, "carriers", host cells, first and further medical uses, vaccines, and diagnostic kits.

5. claims: 5 and 16 (completely) and 8-11,19-29 (partially)

The nucleic acid sequence according to Seq. ID No. 9, the corresponding amino acid sequence according to Seq. ID No. 10, the corresponding protein or polynucleotide fragments, recombinant DNA molecules, "carriers", host cells, first and further medical uses, vaccines, and diagnostic kits.

6. claims: 6 and 17 (completely) and 8-11,19-29 (partially)

The nucleic acid sequence according to Seq. ID No. 11, the corresponding amino acid sequence according to Seq. ID No. 12, the corresponding protein or polynucleotide fragments, recombinant DNA molecules, "carriers", host cells, first and further medical uses, vaccines, and diagnostic kits.

## FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

7. claims: 7 and 18 (completely) and 8-11,19-29 (partially)

The nucleic acid sequence according to Seq. ID No. 13, the corresponding amino acid sequence according to Seq. ID No. 14, the corresponding protein or polynucleotide fragments, recombinant DNA molecules, "carriers", host cells, first and further medical uses, vaccines, and diagnostic kits.

## INTERNATIONAL SEARCH REPORT

Internatio.	cation No	_
PCT/EP	03/10189	

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